

## PRUNUS ROOTSTOCK NAMED 'AP-1'

### BOTANICAL CLASSIFICATION

*Prunus cerasifera* x *Prunus persica*

### VARIETAL DENOMINATION

'AP-1'

### BACKGROUND OF THE INVENTION

The present invention comprises a new and distinct cultivar of *Prunus cerasifera* x *Prunus persica* used as a rootstock known by the varietal name 'AP-1'. The new variety was discovered in the Krasnodar region of Russia around 1986. The new variety is the result of planned breeding between a *Prunus cerasifera* plant (female parent) and a *Prunus persica* plant (male parent). The new variety differs from its parents in that its flowers are big and pink, it is not fruit bearing; 'AP-1' has wide elliptical leaves, and it has serrated leaf margins. The purpose of breeding 'AP-1' was to provide a productive clonal rootstock for peach and plum varieties. The new variety has been trial and field tested and has been found to retain its distinctive characteristics and remain true to type through successive propagations. The following characteristics distinguish 'AP-1' from other varieties known to the breeder:

1. 'AP-1' may be propagated via hardwood or softwood cuttings;
2. 'AP-1' has a strong root system;
3. 'AP-1' is resistant to nematodes, chlorosis, cytospora, and verticillium; and
4. 'AP-1' is drought resistant.

### DESCRIPTION OF THE DRAWINGS

The accompanying photographic drawings illustrate the new variety, with the color being as nearly true as is possible with color illustrations of this type:

Fig. 1 shows the new variety grown to a flowering plant;

Fig. 2 shows a close-up view of leaves of the new variety; and

Fig. 3 illustrates the roots and branches of the new variety.

### DESCRIPTION OF THE PLANT

The following detailed description sets forth the characteristics of the new cultivar. The data which defines these characteristics were collected by asexual

reproductions via cuttings carried out in the Krasnodar Region of Russia. The color readings were taken in natural daylight.

### **TREE**

Use: Rootstock.

Fruit bearing: None.

Size (generally): Medium.

Form: Rounded; spreading.

Trunk:

Size: Medium.

Bark color: Grey.

Surface texture: Smooth or with very weak pubescence.

Branches:

Surface texture: Smooth.

Bark color: Light brown.

New growth color: Dark red.

Mature growth color: Light brown.

Internode length: 2.0 – 2.5 cm.

Lenticel size: Small.

Lenticel number: Few.

Bud shape: Conical.

Bud size: 3 mm.

Bud texture: Pubescent.

Leaves:

Length: 14 cm.

Width: 5 cm.

Surface texture: Upper surface is glossy.

Form: Narrow; elliptic.

Color:

Lower surface: Light green.

Upper surface: Green.

Mid-vein:

Size: Thin.

Color: White, with the center being light pink.

**Petiole:**

Length: 1.0 cm.

Thickness: 1.5 – 2.0 mm.

Color: Pink.

Leaf glands: Absent.

**Stipules:**

Size: Up to 2.0 cm.

Color: Green.

**Flowers:**

Size: 35.0 – 38.0 mm.

Color: Light pink.

Number: 1.

Fragrance: None.

Sexual characteristics: Pistil is reduced. The pollen is sterile.

Fruit: None.

**SOIL ADAPTATION AND TOLERANCE**

Cholorosis: Tolerant to resistant.

Wet soil: Resilient.

**MULTIPLICATION ABILITY**

Layering: None.

Hardwood cuttings: Great propagation.

Softwood cuttings: Great propagation.

**PATHOGEN RESISTANCE**

Fungal disease: Resistant to all fungi exposed to the new variety.

Insects: Not resistant.

Mites: Weak resistance.

Viruses: Resistant.

Diseases: Tolerant.

## **PERFORMANCE AS A ROOTSTOCK WHEN GRAFTED**

Root sprouts (suckering):	Very good.
Anchorage:	Very good.
Compatibility:	Good compatibility with all varieties of peaches, almonds, nectarines, Japanese plums, Russian plums, and apricots known to the breeder.
Vigor:	Medium to strong.